INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/34911

	ASSIFICATION OF SUBJECT MATTER		
IPC(7) : B66B 13/12, 13/20			
US CL: 187/309, 310, 334			
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)			
U.S. : 187/309, 310, 334, 335, 324, 307			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic d	ata base consulted during the international search (n	ame of data base and, where pr	acticable, search terms used)
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where	appropriate, of the relevant pas	sages Relevant to claim No.
Α	US 6,340,073 B1 (Lee et al.) 22 January 2002, whole document.		1-14
	1-14		
Α	US 6,220,396 B1 (Heath, III) 24 April 2001, whole document.		
A	US 5,377,785 A (Pearson) 03 January 1995, Figures 1-8.		1-14
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Further	r documents are listed in the continuation of Box C.	See patent family a	nnex.
• S ₁	pecial categories of cited documents;	"T" later document published	after the international filing date or priority
"A" document	defining the general state of the art which is not considered to be	date and not in conflict v	with the application but cited to understand the
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Date of the a	ctual completion of the international search	Date of mailing of the interna	ational search report
19 April 2004	4 (19.04.2004)		19 MAY 2004
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